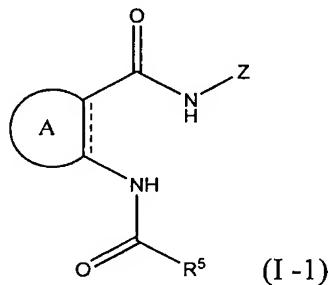


AMENDMENTS TO THE CLAIMS

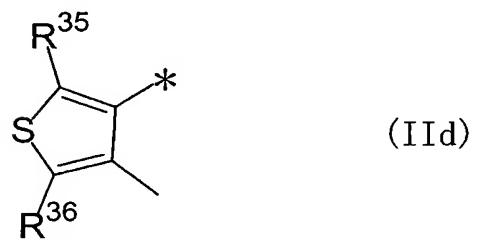
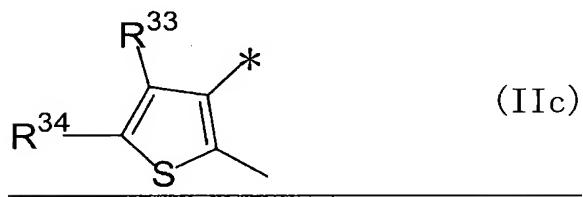
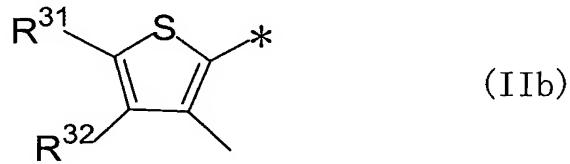
Claims 1 - 49 (Canceled):

Claim 50 (Currently Amended). A compound represented by formula (I-1), or a pharmaceutically acceptable salt thereof:



wherein

A represents a five- to nine-membered unsaturated heterocyclic moiety, and selected from the group consisting of formula (IIb), formula (IIc), and formula (IId):



wherein in formula (IIb)

R³¹ and R³², which may be the same or different, represent a hydrogen atom; a halogen atom; or C₁₋₆ alkyl in which the alkyl group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfonyl, (7) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, or (14) arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl, and the aryl group is optionally substituted by a halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylamino; or C₂₋₆ alkenyl,

when R³¹ and R³² represent C₁₋₆ alkyl or C₂₋₆ alkenyl, the alkyl or the alkenyl groups together with the carbon atoms to which they are respectively attached may form an unsaturated five- to seven-membered carbocyclic ring,

wherein in formula (IIc)

R³³ and R³⁴, which may be the same or different, represent a hydrogen atom; a halogen atom; or C₁₋₆ alkyl in which the alkyl group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfonyl, (7) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, or (14) arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl, and the aryl group is optionally substituted by a halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylamino; or C₂₋₆ alkenyl,

when R³³ and R³⁴ represent C₁₋₆ alkyl or C₂₋₆ alkenyl, the alkyl or the alkenyl groups together with the carbon atoms to which they are respectively attached may form an unsaturated five- to seven-membered carbocyclic ring, wherein in formula (IId)

R³⁵ and R³⁶, which may be the same or different, represent a hydrogen atom; a halogen atom; or C₁₋₆ alkyl in which the alkyl group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfonyl, (7) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, or (14) arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl, and the aryl group is optionally substituted by a halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylamino; or C₂₋₆ alkenyl, and

wherein in formula (IIb), formula (IIc), and formula (IId) * represents a bond to -

C(=O)-NH(-Z)

— represents a single bond or a double bond,

the heterocyclic moiety represented by A are optionally substituted by

(a) a halogen atom;

(b) hydroxyl;

(c) C₁₋₆ alkyl;

(d) C₁₋₆ alkoxy;

(e) aryloxy;

(f) arylthio;

(g) arylamino;

(h) alkylthio;
(i) nitro;
(j) amino;
(k) mono- or di- arylamino;
(l) mono- or di-₁₋₆ alkylamino;
(m) C₂₋₆ alkenyl;
(n) C₂₋₆ alkenyloxy;
(o) C₂₋₆ alkenylthio;
(p) mono- or di C₂₋₆ alkenylamino;
(q) carboxyl; or
(r) C₁₋₆ alkyl- or aryl-oxycarbonyl;
(e) the C₁₋₆ alkyl group, (d) the C₁₋₆ alkoxy group, (f) the aryloxy group, (g) the arylthio group, (h) the alkylthio group, (m) the C₂₋₆ alkenyl group, (n) the C₂₋₆ alkenyloxy group, and (o) the C₂₋₆ alkenylthio group are optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfonyl, (7) mono- or di- C₁₋₆ alkylamino in which the di- C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, (14) arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl, and the aryl group is optionally substituted by halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylamino, (15) C₁₋₆ alkoxy (CH₂CH₂O)_m wherein m is an integer of 1 to 6, (16) carboxyl, (17) an oxygen atom (=O), or (18) C₃₋₇ cycloalkyl, the aryl moiety in (k) the mono- or di- arylamino group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfonyl, (7) mono- or di- C₁₋₆ alkylamino in which the di- C₁₋₆ alkylamino group may form cyclic amino

optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, (14) arylamino in which the amino group is optionally substituted by C₁₋₆alkyl, and the aryl group is optionally substituted by halogen, C₁₋₆alkyl, C₁₋₆alkoxy, or C₁₋₆alkylamino, (15) C₁₋₆alkoxy (CH₂CH₂O)_m wherein m is an integer of 1 to 6, (16) carboxyl, (17) an oxygen atom (=O), or (18) C₃₋₇cycloalkyl, and, in the case of the mono-aryl amino group, the amino group is optionally substituted by C₁₋₆alkyl optionally substituted by hydroxyl or a halogen atom,

in (1) the mono- or di-C₁₋₆alkylamino, the di-C₁₋₆alkyl group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by a halogen atom; C₁₋₆alkyl optionally substituted by hydroxyl, a halogen atom, or aryl optionally substituted by a halogen atom, C₁₋₆alkyl, or C₁₋₆alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C₁₋₆alkyl, or C₁₋₆alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆alkyl groups, they together may form C₃₋₇cycloalkyl; C₁₋₆alkoxy; C₁₋₆alkylthio; mono- or di-C₁₋₆alkylamino in which the di-C₁₋₆alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two C₁₋₆alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl or a halogen atom; arylamino in which the amino group is optionally substituted by C₁₋₆alkyl; mono- or di-C₁₋₆alkylcarbamoylmethyl in which the di-C₁₋₆alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆alkoxy or aryloxy carbonyl; C₁₋₆alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group,

in (p) the mono- or di- C_{2-6} alkenylamino group, the amino group of the monoalkenylamino group is optionally substituted by C_{1-6} alkyl optionally substituted by hydroxyl or a halogen atom, and the di- C_{2-6} alkenyl together may form unsaturated cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkenyl groups on the amino group or the unsaturated cyclic amino moiety are optionally substituted by a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkenyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamine in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two C_{1-6} alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl or a halogen atom; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (—O); hydroxyl; carboxyl; C_{1-6} alkoxy or aryloxy carbonyl; C_{1-6} alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group;

when the heterocyclic moiety represented by A are substituted by two (e) C_{1-6} alkyl groups or (m) C_{2-6} alkenyl groups, the alkyl or the alkenyl groups together with the carbon atoms to which they are respectively attached may form an unsaturated five to seven-membered carbocyclic ring;

R^5 represents C_{1-6} alkyl, aryl, C_{1-6} alkoxy, aryloxy, C_{1-6} alkylamino, arylamino, C_{1-6} alkylthio, arylthio, C_{3-7} cycloalkyl, or a heterocyclic group, and the C_{1-6} alkyl, the aryl, the C_{1-6} alkoxy, the aryloxy C_{1-6} the alkylamino, the arylamino, the C_{1-6} alkylthio, the arylthio, the C_{3-7} cycloalkyl, or the heterocyclic group represented by R^5 is optionally substituted by

- (I) a halogen atom;
- (II) C_{1-6} alkyl optionally containing a substituent selected from the group consisting of
 - (1) hydroxyl, (2) thiol, (3) amino, (4) C_{1-6} alkoxy, (5) C_{1-6} alkylthio, (6) C_{1-6} alkylsulfinyl, (7) C_{1-6} alkylsulfonyl, (8) mono- or di C_{1-6} alkylamino, (8') amino substituted by a heterocyclic group optionally substituted by C_{1-6} alkyl, (9) C_{1-6} alkylcarbonyloxy, (10) C_{1-6} alkylcarbonylthio, (11) C_{1-6} alkylcarbonylamino, (12) aryloxy, (13) arylthio, (14) arylsulfinyl, (15) arylsulfonyl, (16) arylamino, (17) C_{1-6} alkyl- or aryl-sulfonylamino, (18) C_{1-6} alkyl- or aryl-ureido, (19) C_{1-6} alkoxy- or aryloxy-carbonylamino, (20) C_{1-5} alkylamino- or arylaminocarbonyloxy, (21) carboxyl, (22) nitro, (23) a heterocyclic group, (23') Het-S(=O)j wherein the Het represents a heterocyclic group, j is 0, 1, or 2, and the Het is optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl, (24) cyano, and (25) a halogen atom, wherein the alkyl moiety in (4) the C_{1-6} alkoxy group, (5) the C_{1-6} alkylthio group, (6) the C_{1-6} alkylsulfinyl group, and (7) the C_{1-6} alkylsulfonyl group is optionally substituted by a halogen atom; C_{1-6} alkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms; aryloxy; arylthio; hydroxyl; carboxyl; -S(=O)2(-OH); C_{1-6} alkoxy- or aryloxy-carbonyl; C_{1-6} alkylcarbonyl; aryl; or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino

in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxy, and

in (8) the mono- or di-C₁₋₆ alkylamino group, the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by a halogen atom; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; C₁₋₆ alkoxy; C₁₋₆ alkylthio; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl; mono- or di-C₁₋₆ alkylcarbamoyimethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

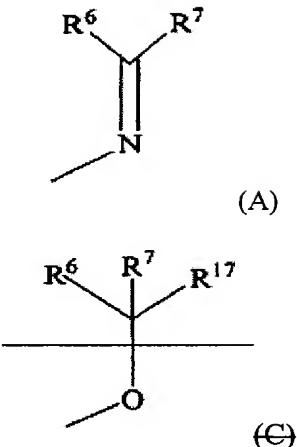
- (III) C₁₋₆ alkoxy optionally substituted by a halogen atom;
- (IV) C₁₋₆ alkylthio optionally substituted by a halogen atom;
- (V) C₃₋₇ cycloalkyl;
- (VI) aryl;
- (VII) aryloxy;
- (VIII) C₁₋₆ alkylcarbonylamino;
- (IX) C₁₋₆ alkylcarbonyloxy;
- (X) hydroxyl;
- (XI) nitro;
- (XII) cyano;
- (XIII) amino;
- (XIV) mono or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms;
- (XV) arylamino;
- (XVI) C₁₋₆ alkyl- or aryl-sulfonylamino;
- (XVII) C₁₋₆ alkyl- or aryl-ureido;
- (XVIII) C₁₋₆ alkoxy- or aryloxy-carbonylamino;
- (XIX) C₁₋₆ alkylamino- or arylamino-carbonyloxy;
- (XX) C₁₋₆ alkoxy- or aryloxy-carbonyl;
- (XXI) acyl;
- (XXII) carboxyl;
- (XXIII) carbamoyl;
- (XXIV) mono- or di-alkylcarbamoyl;
- (XXV) a heterocyclic group;

(XXVI) alkyl- or aryl-sulfonyl;

(XXVII) C₂₋₆ alkenyloxy group; or

(XXVIII) C₂₋₆ alkenyloxy,

Z represents group (A) or group (C):



wherein

R⁶ and R⁷, which may be the same or different, represent a hydrogen atom, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkenyl, aryl, aryl C₁₋₆ alkyl, aryl C₂₋₆ alkenyl, or a heterocyclic group, and the C₁₋₆ alkyl, the aryl, the aryl C₁₋₆ alkyl, the aryl C₂₋₆ alkenyl, and the heterocyclic groups, which may be the same or different, are optionally substituted by.

(I) a halogen atom;

(II) C₁₋₆ alkyl optionally having one or more substituents a-substituent selected from a group consisting of (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio optionally substituted by hydroxyl, (6) C₁₋₆ alkylsulfinyl, (7) C₁₋₆ alkylsulfonyl, (8) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, (9) C₁₋₆ alkylcarbonyloxy, (10) C₁₋₆ alkylcarbonylthio, (11) C₁₋₆ alkylcarbonylamino, (12) aryloxy, (13) arylthio, (14) arylsulfinyl, (15) arylsulfonyl, (16) arylamino, (17) C₁₋₈ alkyl- or aryl-sulfonylamino, (18) C₁₋₆ alkyl- or aryl-ureido, (19) C₁₋₆

alkoxy- or aryloxy-carbonylamino, (20) C₁₋₆ alkylamino- or arylamino-carbonyloxy, (21) carboxyl, (22) nitro, (23) a heterocyclic group, (23') Het-S- wherein the Het represents a heterocyclic group, (24) cyano, (25) a halogen atom, and (26) C₁₋₆ alkyl- or aryl-oxycarbonyl;

(III) C₁₋₆ alkoxy optionally having one or more substituents a substituent selected from the group consisting of (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio optionally substituted by hydroxyl, (6) C₁₋₆ alkylsulfinyl, (7) C₁₋₆ alkylsulfonyl, (8) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, (9) C₁₋₆ alkylcarbonyloxy, (10) C₁₋₆ alkylcarbonylthio, (11) C₁₋₆ alkylcarbonylamino, (12) aryloxy, (13) arylthio, (14) arylsulfinyl, (15) arylsulfonyl, (16) arylamino, (17) C₁₋₆ alkyl- or aryl-sulfonylamino, (18) C₁₋₈ alkyl- or aryl-ureido, (19) C₁₋₆ alkoxy- or aryloxy-carbonylamino, (20) C₁₋₆ alkylamino- or arylamino-carbonyloxy, (21) carboxyl, (22) nitro, (23) a heterocyclic group, (23') Het-S- wherein the Het represents a heterocyclic group, (24) cyano, (25) a halogen atom, and (26) C₁₋₆ alkyl- or aryl-oxycarbonyl;

(IV) C₁₋₆ alkylthio optionally substituted by a halogen atom;

(V) C₃₋₇ cycloalkyl;

(VI) aryl;

(VII) aryloxy;

(VIII) C₁₋₆ alkylcarbonylamino;

(VIX) C₁₋₆ alkylcarbonyloxy;

(X) hydroxyl;

(XI) nitro;

(XII) cyano;

(XIII) amino;

(XIV) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms;

(XV) arylamino;

(XVI) C₁₋₆ alkyl- or aryl-sulfonylamino;

(XVII) C₁₋₆ alkyl- or aryl-ureido;

(XVIII) C₁₋₆ alkoxy- or aryloxy-carbonylamino;

(XIX) C₁₋₆ alkylamino- or arylamino-carbonyloxy;

(XX) C₁₋₆ alkoxy- or aryloxy-carbonyl;

(XXI) aryl;

(XXII) carboxyl;

(XXIII) carbamoyl;

(XXIV) mono- or di-alkylcarbamoyl;

(XXV) a heterocyclic group;

(XXVI) alkyl- or aryl-sulfonyl;

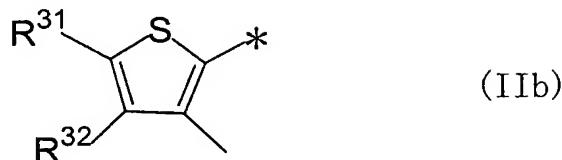
(XXVII) C₂₋₆ alkenyloxy; or

(XXVIII) C₂₋₆ alkynyoxy,

R¹² represents a hydrogen atom.

Claims 51 – 52 (Canceled):

Claim 53 (Previously Presented): The compound according to claim 50, wherein A represents formula (IIb):



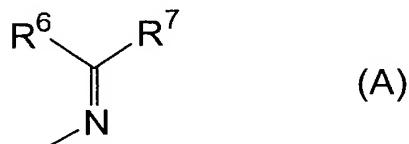
wherein R³¹ and R³², which may be the same or different, represent a hydrogen atom; a halogen atom; or C₁₋₆ alkyl in which the alkyl group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfonyl, (7) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, or (14) arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl, and the aryl group is optionally substituted by a halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylamino; or C₂₋₆ alkenyl,

when R³¹ and R³² represent C₁₋₆ alkyl or C₂₋₆ alkenyl, the alkyl or the alkenyl groups together with the carbon atoms to which they are respectively attached may form an unsaturated five- to seven-membered carbocyclic ring, and

* represents a bond to -C(=O)-NH(-Z)

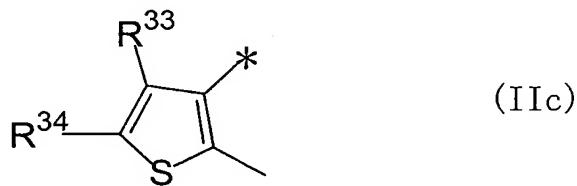
R⁵ represents C₅₋₇ cycloalkyl, aryl, or saturated or unsaturated five- or six-membered heterocyclic group, and the C₅₋₇ cycloalkyl, aryl, or saturated or unsaturated five- or six-membered heterocyclic group represented by R⁵ is optionally substituted by (I), (II), (III), (IV), (V), (VI), (VII), (VIII), (IX), (X), (XI), (XII), (XIII), (XIV), (XV), (XVI), (XVII), (XVIII), (XIX), (XX), (XXI), (XXII), (XXIII), (XXIV), (XXV), (XXVI), or (XXVII),

Z represents group (A):



wherein R^6 represents a hydrogen atom or C_{1-6} alkyl, R^7 represents optionally substituted aryl, optionally substituted aryl C_{1-6} alkyl, optionally substituted aryl C_{2-6} alkenyl, or optionally substituted saturated or unsaturated five- or six-membered heterocyclic group, and R^{17} represents a hydrogen atom.

Claim 54 (Previously Presented): The compound according to claim 50, wherein A represents formula (IIc):



wherein R^{33} and R^{34} , which may be the same or different, represent a hydrogen atom; a halogen atom; or C_{1-6} alkyl in which the alkyl group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C_{1-6} alkoxy, (5) C_{1-6} alkylthio, (6) C_{1-6} alkylsulfonyl, (7) mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, or (14) arylamino in which the amino group is optionally substituted by C_{1-6} alkyl, and the aryl group is optionally substituted by a halogen, C_{1-6} alkyl, C_{1-6} alkoxy, or C_{1-6} alkylamino; or C_{2-6} alkenyl,

when R^{33} and R^{34} represent C_{1-6} alkyl or C_{2-6} alkenyl, the alkyl or the alkenyl groups together with the carbon atoms to which they are respectively attached may form an unsaturated five- to seven-membered carbocyclic ring, and

* represents a bond to $-C(=O)-NH(-Z)$

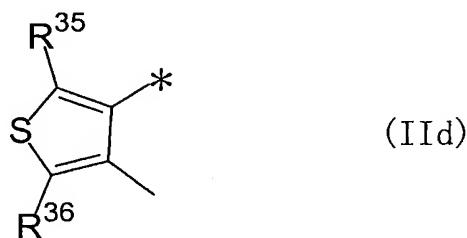
R^5 represents C_{5-7} cycloalkyl, aryl, or saturated or unsaturated five- or six-membered heterocyclic group, and the C_{5-7} cycloalkyl, aryl, or saturated or unsaturated five- or six-membered heterocyclic group represented by R^5 is optionally substituted by (I), (II), (III), (IV), (V), (VI), (VII), (VIII), (IX), (X), (XI), (XII), (XIII), (XIV), (XV), (XVI), (XVII), (XVIII), (XIX), (XX), (XXI), (XXII), (XXIII), (XXIV), (XXV), (XXVI), or (XXVII),

Z represents group (A):



wherein R^6 represents a hydrogen atom or C_{1-6} alkyl, R^7 represents optionally substituted aryl, optionally substituted aryl C_{1-6} alkyl, optionally substituted aryl C_{2-6} alkenyl, or optionally substituted saturated or unsaturated five- or six-membered heterocyclic group, and R^{17} represents a hydrogen atom.

Claim 55 (Previously Presented): The compound according to claim 50, wherein A represents formula (IIId):



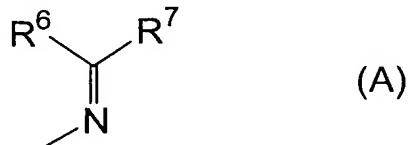
wherein R^{35} and R^{36} , which may be the same or different, represent a hydrogen atom; a halogen atom; or C_{1-6} alkyl in which the alkyl group is optionally substituted by (1) hydroxyl, (2) thiol, (3) amino, (4) C_{1-6} alkoxy, (5) C_{1-6} alkylthio, (6) C_{1-6} alkylsulfonyl, (7)

mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, (8) aryloxy, (9) arylthio, (10) arylsulfonyl, (11) aryl, (12) a heterocyclic group, (13) a halogen atom, or (14) arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl, and the aryl group is optionally substituted by a halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy, or C₁₋₆ alkylamino; or C₂₋₆ alkenyl, and

* represents a bond to -C(=O)-NH(-Z)

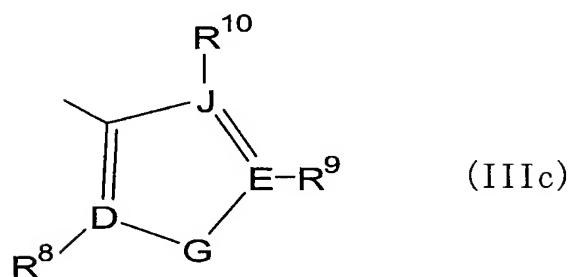
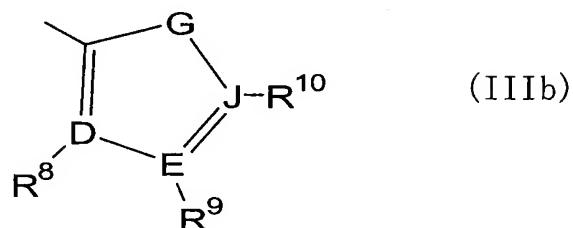
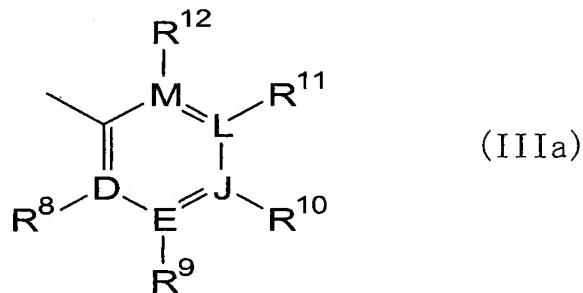
R⁵ represents C₅₋₇ cycloalkyl, aryl, or saturated or unsaturated five- or six-membered heterocyclic group, and the C₅₋₇ cycloalkyl, aryl, or saturated or unsaturated five- or six-membered heterocyclic group represented by R⁵ is optionally substituted by (I), (II), (III), (IV), (V), (VI), (VII), (VIII), (IX), (X), (XI), (XII), (XIII), (XIV), (XV), (XVI), (XVII), (XVIII), (XIX), (XX), (XXI), (XXII), (XXIII), (XXIV), (XXV), (XXVI), or (XXVII),

Z represents group (A):



wherein R⁶ represents a hydrogen atom or C₁₋₆ alkyl, R⁷ represents optionally substituted aryl, optionally substituted aryl C₁₋₆ alkyl, optionally substituted aryl C₂₋₆ alkenyl, or optionally substituted saturated or unsaturated five- or six-membered heterocyclic group, and R¹⁷ represents a hydrogen atom.

Claim 56 (Previously Presented): The compound according to claim 51, wherein R⁵ represents formula (IIIa), formula (IIIb), or formula (IIIc)



wherein

D, E, J, L, and M, which may be the same or different, represent a carbon or nitrogen atom,

G represents an oxygen or sulfur atom,

R⁸, R⁹, R¹⁰, R¹¹, and R¹², which may be the same or different, represent

(I) a halogen atom;

(II) C₁₋₆ alkyl optionally containing a substituent selected from the group consisting of

(1) hydroxyl, (2) thiol, (3) amino, (4) C₁₋₆ alkoxy, (5) C₁₋₆ alkylthio, (6) C₁₋₆ alkylsulfinyl, (7) C₁₋₆ alkylsulfonyl, (8) mono- or di-C₁₋₆ alkylamino, (8') amino substituted by a heterocyclic group optionally substituted by C₁₋₆ alkyl, (9) C₁₋₆ alkylcarbonyloxy, (10) C₁₋₆

alkylcarbonylthio, (11) C₁₋₆ alkylcarbonylamino, (12) aryloxy, (13) arylthio, (14) arylsulfinyl, (15) arylsulfonyl, (16) arylamino, (17) C₁₋₆ alkyl- or aryl-sulfonylamino, (18) C₁₋₆ alkyl- or aryl-ureido, (19) C₁₋₆ alkoxy- or aryloxy-carbonylamino, (20) C₁₋₆ alkylamino- or arylamino-carbonyloxy, (21) carboxyl, (22) nitro, (23) a heterocyclic group, (23') Het-S(=O)j- wherein the Het represents a heterocyclic group, j is 0, 1, or 2, and the Het is optionally substituted by alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl, (24) cyano, and (25) a halogen atom,

wherein the alkyl moiety in (4) the C₁₋₆ alkoxy group, (5) the C₁₋₆ alkylthio group, (6) the C₁₋₆ alkylsulfinyl group, and (7) the C₁₋₆ alkylsulfonyl group is optionally substituted by a hydrogen atom; a halogen atom; C₁₋₆ alkyl; C₁₋₆ alkoxy; C₁₋₆ alkylthio; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms; aryloxy; arylthio; hydroxyl; carboxyl; -S(=O)₂(-OH); C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl; or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxy, and

in (8) the mono- or di-C₁₋₆ alkylamino group, the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by a halogen atom; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a

halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; C₁₋₆ alkoxy; C₁₋₆ alkylthio; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

(III) C₁₋₆ alkoxy optionally substituted by a halogen atom;

(IV) C₁₋₆ alkylthio optionally substituted by a halogen atom;

(V) C₃₋₇ cycloalkyl;

(VI) aryl;

(VII) aryloxy;

(VIII) C₁₋₆ alkylcarbonylamino;

(VIX) C₁₋₆ alkylcarbonyloxy;

(X) hydroxyl;

(XI) nitro;

(XII) cyano;

(XIII) amino;

(XIV) mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms;

(XV) arylamino;

(XVI) C₁₋₆ alkyl- or aryl-sulfonylamino;

(XVII) C₁₋₆ alkyl- or aryl-ureido;

(XVIII) C₁₋₆ alkoxy- or aryloxy-carbonylamino;

(XIX) C₁₋₆ alkylamino- or arylamino-carbonyloxy;

(XX) C₁₋₆ alkoxy- or aryloxy-carbonyl;

(XXI) acyl;

(XXII) carboxyl;

(XXIII) carbamoyl;

(XXIV) mono- or di-alkylcarbamoyl;

(XXV) a heterocyclic group;

(XXVI) alkyl- or aryl-sulfonyl;

(XXVII) C₂₋₆ alkenyloxy;

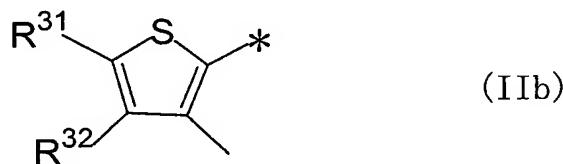
(XXVIII) C₂₋₆ alkynyoxy; or

(XXIX) a hydrogen atom, and

when D, E, J, L, or M represents a nitrogen atom, R⁸, R⁹, R¹⁰, R¹¹, and R¹² each are absent, or otherwise may combine with a nitrogen atom to form N-oxide (N → O).

Claims 57 – 58 (Canceled):

Claim 59 (Currently Amended): The compound according to claim 50, wherein A represents formula (IIb)

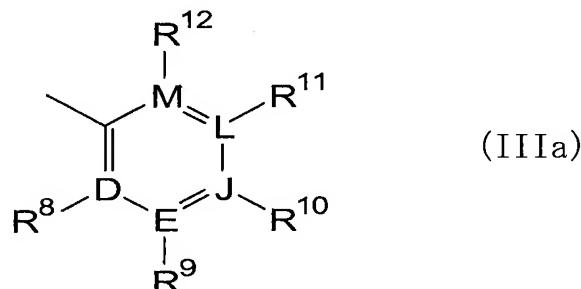


wherein

- (i) R^{31} and R^{32} represent a hydrogen atom,
- (ii) any one of R^{31} and R^{32} represents a hydrogen atom, and the other represents C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms,
- (iii) R^{31} and R^{32} , which may be the same or different, represent C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms, or
- (iv) R^{31} and R^{32} together with the carbon atoms to which they are respectively attached form an unsaturated five- to seven-membered carbocyclic ring, and

* represents a bond to $-C(=O)-NH(-Z)$

R^5 represents formula (IIIa)



wherein

(i) D, E, J, L, and M represent a carbon atom, any one or two of R⁸, R⁹, R¹⁰, R¹¹, and R¹², which may be the same or different, represent a halogen atom; hydroxymethyl; C₁₋₆ alkyl optionally substituted by a halogen atom; or C₁₋₆ alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(ii) any one or two of D, E, J, L, and M represent a nitrogen atom, and the others represent a carbon atom, any one or two of R⁸, R⁹, R¹⁰, R¹¹, and R¹² may be the same or different and represent a halogen atom; hydroxymethyl; C₁₋₆ alkyl optionally substituted by a halogen atom, or C₁₋₆ alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(iii) D, E, J, L, and M represent a carbon atom, R⁸, R⁹, and R¹² represent a hydrogen atom, any one of R¹⁰ and R¹¹ represents a group of formula (IV)



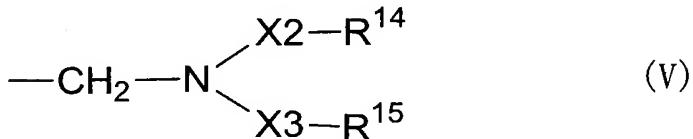
wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,
X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R¹³ represents a hydrogen atom, a halogen atom, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkylthio, mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, -S(=O)₂(-OH), C₁₋₆ alkoxy- or aryloxy-carbonyl, C₁₋₆ alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl

groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)



wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C_{1-6} alkoxy- or

aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X₂ represents a bond, R¹⁴ represents a hydrogen atom, or when X₃ represents a bond, R¹⁵ represents a hydrogen atom, or

R¹⁴ and R¹⁵ together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R¹⁴ and R¹⁵ are attached, and is optionally substituted by hydroxyl; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic

carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;
and the other represents a hydrogen atom,

(iv) any one or two of D, E, J, L, and M represent a nitrogen atom, and the others represent a carbon atom, R⁸, R⁹, and R¹² represent a hydrogen atom, and one of R¹⁰ and R¹¹ represents a group of formula (IV)



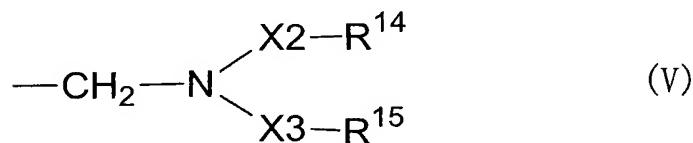
wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{13} represents a hydrogen atom, a halogen atom, C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, $-S(=O)_2(-OH)$, C_{1-6} alkoxy- or aryloxy-carbonyl, C_{1-6} alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)



wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

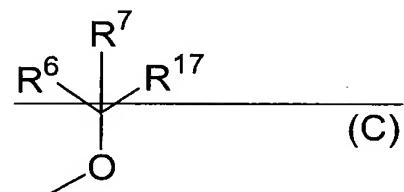
X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C_{1-6} alkoxy- or aryloxy-carbonyl; C_{1-6} alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X2 represents a bond, R^{14} represents a hydrogen atom, or when X3 represents a bond, R^{15} represents a hydrogen atom, or

R^{14} and R^{15} together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R^{14} and R^{15} are attached, and is optionally substituted by hydroxyl; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C_{1-6} alkoxy groups which may be the same or different, the two alkoxy groups together may form group $-O-(CH_2)_p-O-$ wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

and the other represents a hydrogen atom,

Z represents group (A) or group (C):



wherein

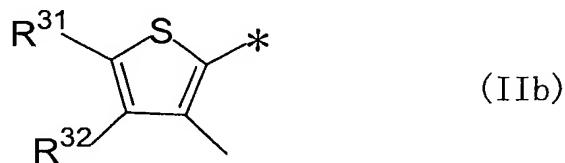
R⁶ represents a hydrogen atom or C₁₋₆ alkyl,

R⁷ represents optionally substituted aryl, optionally substituted aryl C₁₋₆ alkyl,

optionally substituted aryl C₂₋₆ alkenyl, or optionally substituted saturated or unsaturated five-
or six-membered heterocyclic group, and

R¹⁷ represents a hydrogen atom.

Claim 60 (Currently Amended): The compound according to claim 50, wherein A represents formula (IIb)



wherein

(i) R³¹ and R³² represent a hydrogen atom,

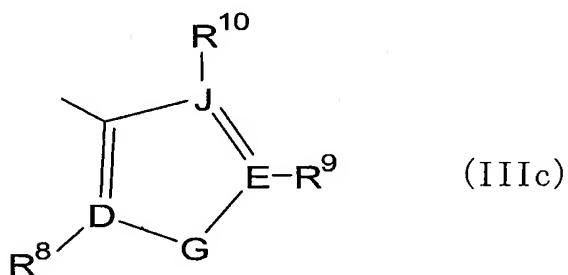
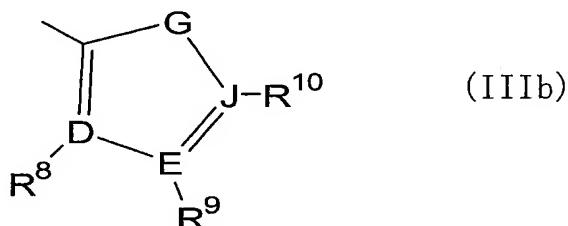
(ii) any one of R³¹ and R³² represents a hydrogen atom, and the other represents C₁₋₆ alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms,

(iii) R^{31} and R^{32} , which may be the same or different, represent C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms, or

(iv) R^{31} and R^{32} together with the carbon atoms to which they are respectively attached form an unsaturated five- to seven-membered carbocyclic ring, and

* represents a bond to $-C(=O)-NH(-Z)$

R^5 represents formula (IIIb) or formula (IIIc)



wherein

(i) D, E, and J represent a carbon atom, G represents an oxygen or sulfur atom, any one or two of R^8 , R^9 , and R^{10} , which may be the same or different, represent a halogen atom; hydroxymethyl; C_{1-6} alkyl optionally substituted by a halogen atom; or C_{1-6} alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom, or

(ii) D, E, and J represent a carbon atom, G represents an oxygen or sulfur atom, one of R^8 , R^9 , and R^{10} represents a group of formula (IV)



wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{13} represents a hydrogen atom, a halogen atom, C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, $-S(=O)_2(-OH)$, C_{1-6} alkoxy- or aryloxy-carbonyl, C_{1-6} alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)

wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms.

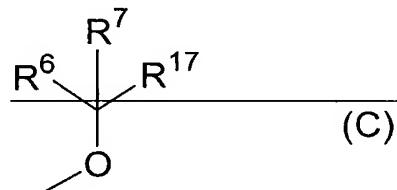
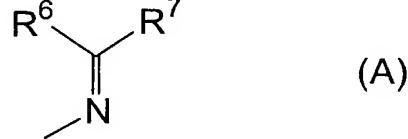
X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms.

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C_{1-6} alkoxy- or aryloxy-carbonyl; C_{1-6} alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X_2 represents a bond, R^{14} represents a hydrogen atom, or when X_3 represents a bond, R^{15} represents a hydrogen atom, or

R^{14} and R^{15} together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R^{14} and R^{15} are attached, and is optionally substituted by hydroxyl; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6}

alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;
and the others represent a hydrogen atom,

Z represents group (A) or group (C):



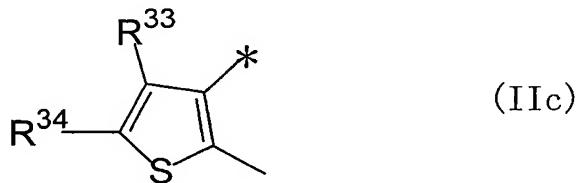
wherein

R^6 represents a hydrogen atom or C_{1-6} alkyl,

R^7 represents optionally substituted aryl, optionally substituted aryl C_{1-6} alkyl, optionally substituted aryl C_{2-6} alkenyl, or optionally substituted saturated or unsaturated five- or six-membered heterocyclic group, and

~~R^{17} represents a hydrogen atom.~~

Claim 61 (Currently Amended): The compound according to claim 50, wherein A represents formula (IIc)

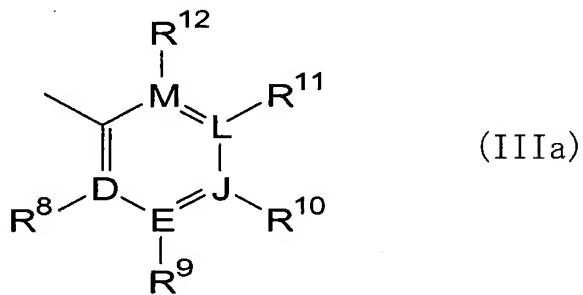


wherein

- (i) R^{33} and R^{34} represent a hydrogen atom,
- (ii) any one of R^{33} and R^{34} represents a hydrogen atom, and the other represents C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms,
- (iii) R^{33} and R^{34} , which may be the same or different, represent C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms, or
- (iv) R^{33} and R^{34} together with the carbon atoms to which they are respectively attached form an unsaturated five- to seven-membered carbocyclic ring, and

* represents a bond to $-C(=O)-NH(-Z)$

R^5 represents formula (IIIa)



wherein

(i) D, E, J, L, and M represent a carbon atom, any one or two of R⁸, R⁹, R¹⁰, R¹¹, and R¹², which may be the same or different, represent a halogen atom; hydroxymethyl; C₁₋₆ alkyl optionally substituted by a halogen atom; or C₁₋₆ alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(ii) any one or two of D, E, J, L, and M represent a nitrogen atom, and the others represent a carbon atom, any one or two of R⁸, R⁹, R¹⁰, R¹¹, and R¹² may be the same or different and represent a halogen atom; hydroxymethyl; C₁₋₆ alkyl optionally substituted by a halogen atom, or C₁₋₆ alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(iii) D, E, J, L, and M represent a carbon atom, R⁸, R⁹, and R¹² represent a hydrogen atom, any one of R¹⁰ and R¹¹ represents a group of formula (IV)



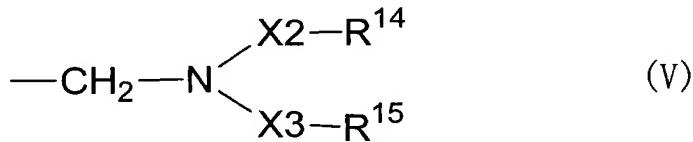
wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R¹³ represents a hydrogen atom, a halogen atom, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkylthio, mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may

form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, $-S(=O)_2(-OH)$, C_{1-6} alkoxy- or aryloxy-carbonyl, C_{1-6} alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; or a group of formula (V)



wherein

X_2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

X_3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally

substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X₂ represents a bond, R¹⁴ represents a hydrogen atom, or when X₃ represents a bond, R¹⁵ represents a hydrogen atom, or

R¹⁴ and R¹⁵ together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R¹⁴ and R¹⁵ are attached, and is optionally substituted by hydroxyl; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or

an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

and the other represents a hydrogen atom,

(iv) any one or two of D, E, J, L, and M represent a nitrogen atom, and the others represent a carbon atom, R⁸, R⁹, and R¹² represent a hydrogen atom, and one of R¹⁰ and R¹¹ represents a group of formula (IV)

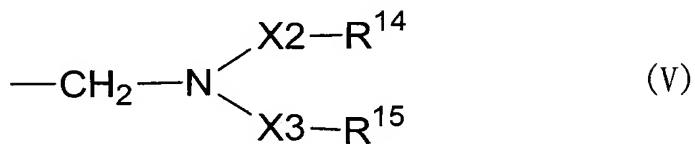


wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,
X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R¹³ represents a hydrogen atom, a halogen atom, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkylthio, mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, -S(=O)₂(-OH), C₁₋₆ alkoxy- or aryloxy-carbonyl, C₁₋₆ alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)



wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms.

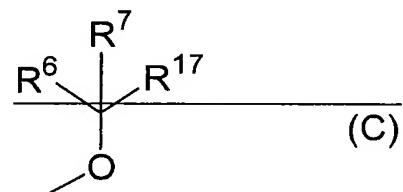
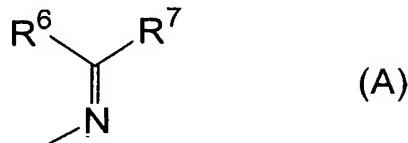
X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms.

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom ($=O$); hydroxyl; carboxyl; C_{1-6} alkoxy- or aryloxy-carbonyl; C_{1-6} alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X_2 represents a bond, R^{14}

represents a hydrogen atom, or when X3 represents a bond, R¹⁵ represents a hydrogen atom, or

R¹⁴ and R¹⁵ together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R¹⁴ and R¹⁵ are attached, and is optionally substituted by hydroxyl; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group; and the other represents a hydrogen atom,

Z represents group (A) or group (C):



wherein

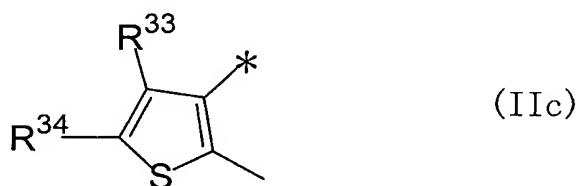
R⁶ represents a hydrogen atom or C₁₋₆ alkyl,

R⁷ represents optionally substituted aryl, optionally substituted aryl C₁₋₆ alkyl,

optionally substituted aryl C₂₋₆ alkenyl, or optionally substituted saturated or unsaturated five-
or six-membered heterocyclic group, and

R¹⁷ represents a hydrogen atom.

Claim 62 (Currently Amended): The compound according to claim 50, wherein A
represents formula (IIc)



wherein

(i) R³³ and R³⁴ represent a hydrogen atom,

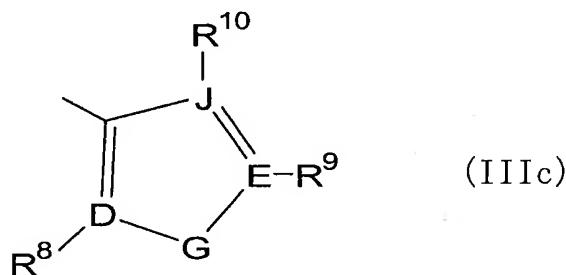
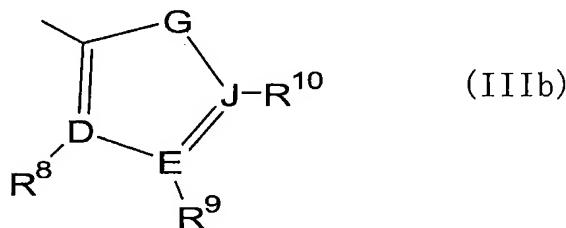
(ii) any one of R^{33} and R^{34} represents a hydrogen atom, and the other represents C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms,

(iii) R^{33} and R^{34} , which may be the same or different, represent C_{1-6} alkyl optionally substituted by mono- or di- C_{1-6} alkylamino, which may form cyclic amino, or a halogen atom, and the cyclic amino group may contain 1 to 3 heteroatoms, or

(iv) R^{33} and R^{34} together with the carbon atoms to which they are respectively attached form an unsaturated five- to seven-membered carbocyclic ring, and

* represents a bond to $-C(=O)-NH(-Z)$

R^5 represents formula (IIIb) or formula (IIIc)



wherein

(i) D, E, and J represent a carbon atom, G represents an oxygen or sulfur atom, any one or two of R^8 , R^9 , and R^{10} , which may be the same or different, represent a halogen atom; hydroxymethyl; C_{1-6} alkyl optionally substituted by a halogen atom; or C_{1-6} alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom, or

(ii) D, E, and J represent a carbon atom, G represents an oxygen or sulfur atom, one of R⁸, R⁹, and R¹⁰ represents a group of formula (IV)



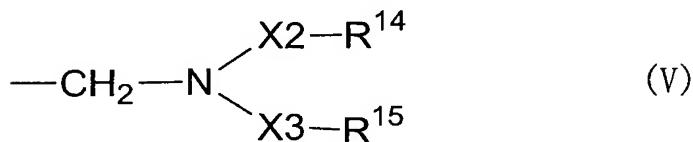
wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R¹³ represents a hydrogen atom, a halogen atom, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkylthio, mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, -S(=O)₂(-OH), C₁₋₆ alkoxy- or aryloxy-carbonyl, C₁₋₆ alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)



wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

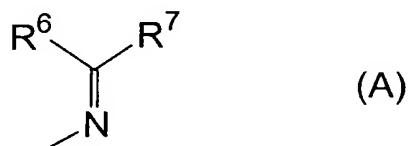
X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

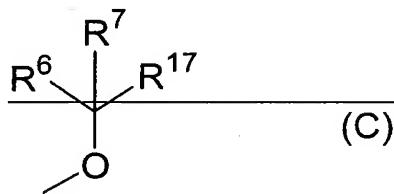
R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C_{1-6} alkoxy- or aryloxy-carbonyl; C_{1-6} alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X2 represents a bond, R^{14} represents a hydrogen atom, or when X3 represents a bond, R^{15} represents a hydrogen atom, or

R^{14} and R^{15} together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R^{14} and R^{15} are attached, and is optionally substituted by hydroxyl; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen

atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group; and the others represent a hydrogen atom,

Z represents group (A) or group (C):





wherein

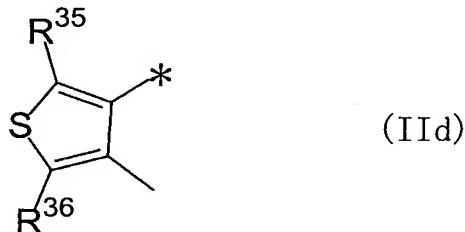
R^6 represents a hydrogen atom or C_{1-6} alkyl,

R^7 represents optionally substituted aryl, optionally substituted aryl C_{1-6} alkyl,

optionally substituted aryl C_{2-6} alkenyl, or optionally substituted saturated or unsaturated five-
or six-membered heterocyclic group, and

R^{17} represents a hydrogen atom.

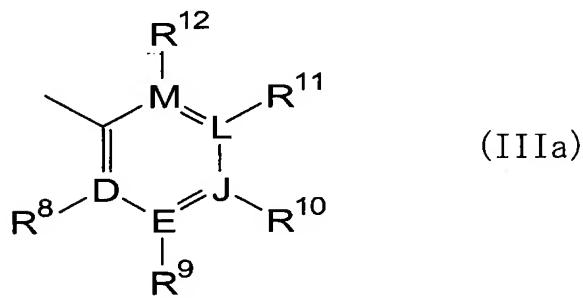
Claim 63 (Currently Amended): The compound according to claim 50, wherein A
represents formula (IIId)



wherein R^{35} and R^{36} represent a hydrogen atom, or any one of R^{35} and R^{36} represents
a hydrogen atom and the other represents C_{1-6} alkyl optionally substituted by a halogen atom,
and

* represents a bond to $-C(=O)-NH(-Z)$

R^5 represents formula (IIIA)



wherein

(i) D, E, J, L, and M represent a carbon atom, any one or two of R⁸, R⁹, R¹⁰, R¹¹, and R¹², which may be the same or different, represent a halogen atom; hydroxymethyl; C₁₋₆ alkyl optionally substituted by a halogen atom; or C₁₋₆ alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(ii) any one or two of D, E, J, L, and M represent a nitrogen atom, and the others represent a carbon atom, any one or two of R⁸, R⁹, R¹⁰, R¹¹, and R¹² may be the same or different and represent a halogen atom; hydroxymethyl; C₁₋₆ alkyl optionally substituted by a halogen atom, or C₁₋₆ alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(iii) D, E, J, L, and M represent a carbon atom, R⁸, R⁹, and R¹² represent a hydrogen atom, any one of R¹⁰ and R¹¹ represents a group of formula (IV)



wherein

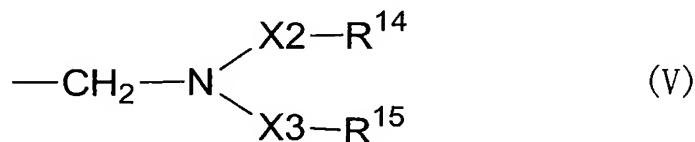
Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R¹³ represents a hydrogen atom, a halogen atom, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkylthio, mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may

form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, $-S(=O)_2(-OH)$, C_{1-6} alkoxy- or aryloxy-carbonyl, C_{1-6} alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)



wherein

X_2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

X_3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or

two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X₂ represents a bond, R¹⁴ represents a hydrogen atom, or when X₃ represents a bond, R¹⁵ represents a hydrogen atom, or

R¹⁴ and R¹⁵ together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R¹⁴ and R¹⁵ are attached, and is optionally substituted by hydroxyl; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino

group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

and the other represents a hydrogen atom, or

(iv) any one or two of D, E, J, L, and M represent a nitrogen atom, and the others represent a carbon atom, R⁸, R⁹, and R¹² represent a hydrogen atom, and one of R¹⁰ and R¹¹ represents a group of formula (IV)



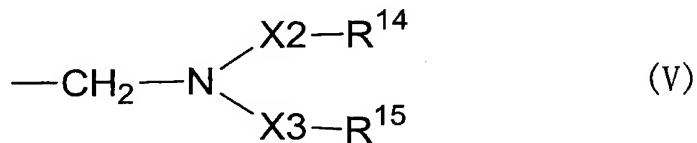
wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R¹³ represents a hydrogen atom, a halogen atom, C₁₋₆ alkyl, C₁₋₆ alkoxy, C₁₋₆ alkylthio, mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, -S(=O)₂(-OH), C₁₋₆ alkoxy- or aryloxy-carbonyl, C₁₋₆ alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl

groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;
or a group of formula (V)



wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C_{1-6} alkyl groups, they together may form C_{3-7} cycloalkyl; C_{1-6} alkoxy; C_{1-6} alkylthio; mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C_{1-6} alkyl; mono- or di- C_{1-6} alkylcarbamoylmethyl in which the di- C_{1-6} alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by

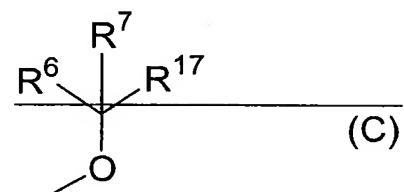
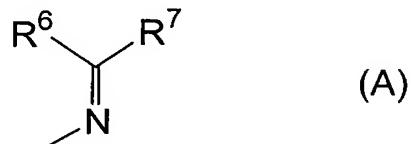
hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X₂ represents a bond, R¹⁴ represents a hydrogen atom, or when X₃ represents a bond, R¹⁵ represents a hydrogen atom, or

R¹⁴ and R¹⁵ together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R¹⁴ and R¹⁵ are attached, and is optionally substituted by hydroxyl; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic

carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

and the other represents a hydrogen atom,

Z represents group (A) or ~~group (C)~~:



wherein

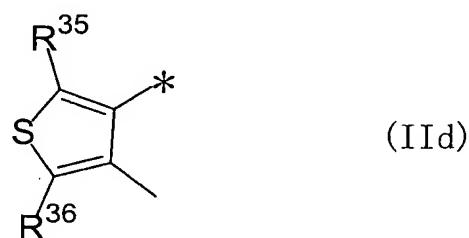
R⁶ represents a hydrogen atom or C₁₋₆ alkyl,

R⁷ represents optionally substituted aryl, optionally substituted aryl C₁₋₆ alkyl,

optionally substituted aryl C₂₋₆ alkenyl, or optionally substituted saturated or unsaturated five- or six-membered heterocyclic group, and

R¹⁷ represents a hydrogen atom.

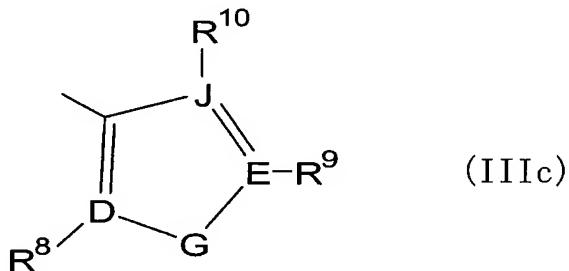
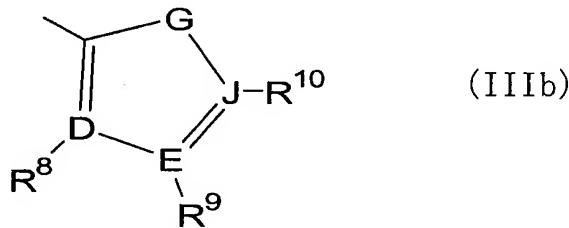
Claim 64 (Currently Amended): The compound according to claim 50, wherein A represents formula (IId)



wherein R^{35} and R^{36} represent a hydrogen atom, or any one of R^{35} and R^{36} represents a hydrogen atom and the other represents C_{1-6} alkyl optionally substituted by a halogen atom, and

* represents a bond to $-C(=O)-NH(-Z)$

R^5 represents formula (IIIb) or formula (IIIc)



wherein

(i) D, E, and J represent a carbon atom, G represents an oxygen or sulfur atom, any one or two of R^8 , R^9 , and R^{10} , which may be the same or different, represent a halogen atom; hydroxymethyl; C_{1-6} alkyl optionally substituted by a halogen atom; or C_{1-6} alkoxy optionally substituted by a halogen atom, and the others represent a hydrogen atom,

(ii) D, E, and J represent a carbon atom, G represents an oxygen or sulfur atom, one of R^8 , R^9 , and R^{10} represents a group of formula (IV)



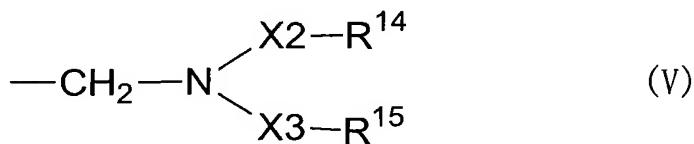
wherein

Q represents an oxygen atom, a sulfur atom, sulfinyl, or sulfonyl,

X1 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{13} represents a hydrogen atom, a halogen atom, C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, aryloxy, arylthio, hydroxyl, carboxyl, $-S(=O)_2(-OH)$, C_{1-6} alkoxy- or aryloxy-carbonyl, C_{1-6} alkylcarbonyl, aryl, or a heterocyclic group optionally substituted by alkyl optionally substituted by mono- or di- C_{1-6} alkylamino in which the di- C_{1-6} alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl;

or a group of formula (V)



wherein

X2 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

X3 represents a bond or straight chain or branched chain alkylene having 1 to 5 carbon atoms,

R^{14} and R^{15} , which may be the same or different, represent a hydrogen atom; a halogen atom; C_{1-6} alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkoxy, a heterocyclic group optionally substituted by a halogen atom, C_{1-6} alkyl, or C_{1-6} alkoxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are

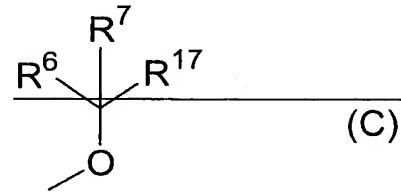
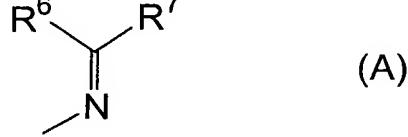
substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; C₁₋₆ alkoxy; C₁₋₆ alkylthio; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; arylamino in which the amino group is optionally substituted by C₁₋₆ alkyl; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; aryloxy; arylthio; an oxygen atom (=O); hydroxyl; carboxyl; C₁₋₆ alkoxy- or aryloxy-carbonyl; C₁₋₆ alkylcarbonyl; aryl optionally substituted by a halogen atom or hydroxyl; or a heterocyclic group, provided that, when X₂ represents a bond, R¹⁴ represents a hydrogen atom, or when X₃ represents a bond, R¹⁵ represents a hydrogen atom, or

R¹⁴ and R¹⁵ together with a nitrogen atom to which they are respectively attached to may form a heterocyclic group that may contain 1 to 3 heteroatoms in addition to the nitrogen atom, to which R¹⁴ and R¹⁵ are attached, and is optionally substituted by hydroxyl; C₁₋₆ alkyl optionally substituted by hydroxyl, a halogen atom, aryl optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, or a heterocyclic group optionally substituted by a halogen atom, C₁₋₆ alkyl, or C₁₋₆ alkyloxy, and, when one or two alkyl groups on the amino group and the cyclic amino moiety are substituted by two C₁₋₆ alkyl groups, they together may form C₃₋₇ cycloalkyl; mono- or di-C₁₋₆ alkylamino in which the di-C₁₋₆ alkylamino may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; a

saturated or unsaturated five- or six-membered heterocyclic group; mono- or di-C₁₋₆ alkylcarbamoylmethyl in which the di-C₁₋₆ alkylamino group may form cyclic amino optionally containing 1 to 3 heteroatoms, and one or two alkyl groups on the amino group and the cyclic amino moiety are optionally substituted by hydroxyl; phenyl; or an oxygen atom (=O), and, when one carbon atom in the cyclic amino moiety is substituted by two C₁₋₆ alkoxy groups which may be the same or different, the two alkoxy groups together may form group -O-(CH₂)_p-O- wherein p is an integer of 2 to 4, and the cyclic amino group may condense with a monocyclic or bicyclic aromatic carbocyclic ring or a monocyclic or bicyclic aromatic heterocyclic ring to represent a bicyclic or tricyclic heterocyclic group;

and the others represent a hydrogen atom,

Z represents group (A) or ~~group (C)~~:



wherein

R⁶ represents a hydrogen atom or C₁₋₆ alkyl,

R⁷ represents optionally substituted aryl, optionally substituted aryl C₁₋₆ alkyl,

optionally substituted aryl C₂₋₆ alkenyl, or optionally substituted saturated or unsaturated five- or six-membered heterocyclic group; and

R¹⁷ represents a hydrogen atom.

Claim 65 (Canceled).

Claim 66 (Previously Presented): A pharmaceutical composition comprising as an active ingredient a compound according to claim 50 or a pharmaceutically acceptable salt thereof.

Claims 67-96 (Canceled).